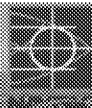


FACT SHEET

Hunters Point Naval Shipyard (HPNS)

Radiological Data Review

January 2017



This fact sheet summarizes the plan for radiological data review, evaluation, and community engagement at Hunters Point Naval Shipyard (HPNS).

Public safety is the highest priority as the Navy and its team conduct investigations and cleanup activities at HPNS. Remediation of radioactive material must be completed appropriately and the results reviewed by the Navy as well as State and Federal agencies and public stakeholders. HPNS parcels will be transferred from the Navy to the City of San Francisco only after any remedial action necessary to protect human health and the environment has been taken.

The Navy is committed to keeping the community engaged in the environmental cleanup process at HPNS, and strongly encourages interested members of the community to participate. The Navy will keep public stakeholders informed of the investigation progress using a series of fact sheets, community meetings, and ongoing communication via the internet, media, and points of contact.

Commented [LL1]: Minor comment - The second part of the sentence is not an independent clause, so it should not be separated by a comma. You could alternatively say, "and the Navy strongly encourages ..." or start a new sentence.

What are the Radiological Data Issues?

As a result of the Navy's oversight of contractors conducting cleanup work at HPNS, Tetra Tech EC, a Navy contractor, was caught misrepresenting soil samples. Tetra Tech EC claimed that the soil samples had been taken after remediation (cleanup), when they were in fact from an area that was known to not be affected by Navy activities.

Upon discovery of the misrepresentation, the Navy notified the Nuclear Regulatory Commission (NRC) and the California Department of Public Health (CDPH) who oversee Tetra Tech EC's radiological licenses. An internal investigation was initiated, the replacement data was collected with rigorous oversight, and corrective actions were taken.

Since the Navy and the NRC concluded their investigations, former workers at HPNS have made allegations about Tetra Tech EC activities, which include:

- Potentially contaminated soil samples were swapped for clean soil samples;
- Potentially contaminated soil was dumped into open trenches in other areas around HPNS;
- Falsified data reports were prepared and submitted to the government; and
- Computer data regarding radiation levels was tampered with to indicate lower levels of radiation.

All of these allegations are being thoroughly investigated by the Navy. Results will be made available when the investigation is completed.

The integrity of environmental data is vital to ensuring that the cleanup at HPNS is completed successfully and chemicals remaining do not pose a threat to human health. The Navy is conducting a complete review of all of Tetra Tech EC's radiological cleanup work to ensure that the property is in fact safe for human health and the environment.

What has Been Done So Far?

As a result of the misrepresentation by Tetra Tech EC, the Navy initiated comprehensive review of radiological data from soil samples.

- More than 70,000 results were reviewed;
- More than 130 building and land areas were resampled with oversight;
- Additional soil excavations were completed;
- New surveys were performed (static gamma measurements, systematic soil samples); and
- After the above new cleanup rework, the final data collected under Navy direct physical oversight, confirmed radiological contamination was appropriately remediated.

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The Navy has postponed transfer of property from HPNS to the City of San Francisco until the Navy can confirm the radiological contamination was appropriately remediated. Confirming radiological data will require additional, in-depth evaluation beyond the 70,000 sampling results already reviewed at HPNS.

Who's Helping?

The Navy assembled a "Tiger Team" – a group of technical experts selected for their knowledge and experience -- to further evaluate the integrity of radiological data. The Tiger Team includes representatives from the Navy, EPA, State of California Department of Toxic Substances Control (DTSC), CDPH, and the City of San Francisco.

A team of nationally recognized experts, completely independent of Tetra Tech EC, has been contracted to support the Tiger Team and perform the radiological data evaluation and confirmation investigation. This team includes organizations with extensive radiological experience, and expertise in health physics (radioactivity), environmental sampling, analysis of samples, measurement of radioactivity, and statistical analysis of environmental data (Cabrera Services, Perma-Fix Environmental Services, SC&A Environmental Services and Consulting, and CH2M).

What Happens Next?

Data Evaluation Objectives and Approach

The next step is to evaluate the existing radiological data and identify areas of concern. Once areas of concern have been identified, additional investigations will be conducted to determine if existing radiological data supports the decision that adequate remediation was completed. If existing data are not adequate, multiple

lines forms of evidence will be collected to demonstrate whether or not demonstrate human health risk from radioactivity at HPNS is within regulatory limits.

Due to the large amount of data and reports from the radiological cleanup, the soil evaluation will be divided into two phases.

Phase 1: Identify areas of concern. Nationally recognized experts will start by examining existing soil data that was used to determine the protectiveness success of HPNS radiological cleanup and will identify areas of concern. The Tiger Team, with support from the team of nationally recognized experts, will review allegations made by former workers and run various statistical tests on the data as one of several approaches to identify signs of falsification of data in order to determine if there was any validity to the claims. The results of the statistical evaluation will determine the help identify areas of concern and provide the number and type of additional investigations and/or additional cleanup required to support safe transfer of property.

Phase 2: Conduct detailed evaluation of areas of concern and confirmation sampling. A detailed evaluation of the areas of concern identified in Phase 1 will be conducted. Any discrepancies with the activities performed during cleanup and the resulting data will be documented.

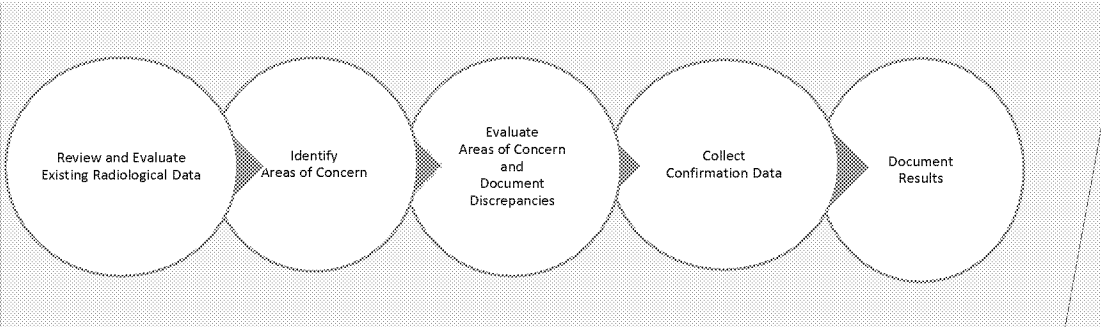
Commented [LL5]: Language more accessible to layperson

Commented [LL6]: Original language could be interpreted as implying the Navy is prejudging the outcome.

Commented [LL7]: The original language could be misinterpreted to mean that statistical tests alone will be sufficient verify claims of workers and to limit the scope of additional future investigation.

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Additional Phases of Evaluation

The data evaluation and confirmation approach depends on multiple forms of evidence. The initial investigation focuses on identifying suspect data using statistical tests, but this is not the only evidence that will be used to determine if the existing data support the remediation decisions that were made.

Additional phases of investigation include:

- Evaluating other types of data in addition to soil sample data, such as building survey data;
- Focusing investigations in areas where health risks were greatest prior to remediation activities;

- Evaluating documentation prepared in the field by following the paper trail to identify or confirm suspect records;
- Evaluating radiological data collected from (1) areas near sites with suspect data, or (2) from areas where surveys were performed just before or just after surveys that generated suspect data; and
- Collecting additional data to confirm or supplement previously reported radiological results.

How Will Results Be Made Public?

Results of both phases of the data evaluation and confirmation sampling will be documented in a detailed confirmation report. The report will be available to the public at the two locations described in the box at right. In addition, stakeholders and the local community will be kept informed by news releases, a fact sheet, website updates, and community meetings.

Where Can I Get More Information?

Program Information:

For information on cleanup at HPNS contact:

Derek Robinson

BRAC Environmental Coordinator
Department of the Navy BRAC Program Management Office
West 33000 Nixie Way, Bldg. 50, 2nd Deck
San Diego, CA 92147

(619) 524-6026 or [[HYPERLINK](#)

"mailto:derek.j.robinson1@navy.mil"]

To be added to the HPNS mailing list or for additional information, email or call the HPNS cleanup team:

[[HYPERLINK "mailto:info@sfpns.com"](#)] or HPNS Info Line:

(41
5)
29
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Reports Are Available fFor Review:

City of San Francisco Main Library

5th Floor Government Information Center
San Francisco, CA 94102
(415) 557-4400

Hunters Point Naval Shipyard Site Trailer

(near HPNS security entrance)
690 Hudson Avenue
San Francisco, CA 94124

Hunters Point Naval Shipyard Navy Website

[[HYPERLINK](#)

"http://www.bracpmo.navy.mil/brac_bases/california/former_shipyard_hunters_point.html"]